



TITLE V OPERATING PERMIT

Permit No: **TV-OP-051**

Date Issued: **March 31, 2004**

This certifies that:

Nashua Corporation
11 Trafalgar Square
Nashua NH 03063

has been granted a Title V Operating Permit for the following facility and location:

Nashua Corporation
57/59 Daniel Webster Highway
Merrimack, NH 03054

This Title V Operating Permit is hereby issued under the terms and conditions specified in the Title V Operating Permit Application filed with the New Hampshire Department of Environmental Services on **July 3, 1996** under the signature of the following responsible official certifying to the best of their knowledge that the statements and information therein are true, accurate and complete.

Responsible Officials:

Donna DiGiovine
President of Specialty Paper Products Division/Toner Division
(603) 880-1001/(603) 880-4056

Technical Contact:

Ray Pieczarka
Facilities Manager
(603) 880-1184

This Permit is issued by the New Hampshire Department of Environmental Services, Air Resources Division pursuant to its authority under New Hampshire RSA 125-C and in accordance with the provisions of the Code of Federal Regulations, Title 40, Part 70.

This Title V Operating Permit shall expire on **March 31, 2009**.

SEE ATTACHED SHEETS FOR ADDITIONAL PERMIT CONDITIONS

For the New Hampshire Department of Environmental Services, Air Resources Division

Director, Air Resources Division

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ABBREVIATIONS

AAL	Ambient Air Limit
AP-42	Compilation of Air Pollutant Emission Factors
ARD	Air Resources Division
ASTM	American Society for Testing and Materials
BHP	Break Horse Power
BTU	British Thermal Units
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CO	Carbon monoxide
CO ₂	Carbon dioxide
DER	Discrete Emission Reduction
Env-A	New Hampshire Code of Administrative Rules - Air Resources Division
ERC	Emission Reduction Credit
FR	Federal Register
HAP	Hazardous Air Pollutant
Hr	Hour
kGal	1,000 gallons
Lb/hr	Pounds per hour
LNB	Low NO _x Burner
MACT	Maximum Achievable Control Technology
mg/L	Milligrams per liter (ppm)
MMBTU	Million British Thermal Units
MSF	Million Square Feet
MMCF	Million Cubic Feet
NAAQS	National Ambient Air Quality Standard
NCCEM	Non-certified Continuous Emissions Monitoring System
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NHDES (or DES)	New Hampshire Department of Environmental Services
NO _x	Oxides of Nitrogen
NSPS	New Source Performance Standard
PE	Potential Emission
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns diameter
ppm	part per million
ppmv	part per million by volume

PSI	Pounds per Square Inch
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RSA	Revised Statutes Annotated
RTAP	Regulated Toxic Air Pollutant
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
SRS	Solvent Recovery System
TAP	Toxic Air Pollutant
TSP	Total Suspended Particulate Matter
TPY	Tons per Year
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

Facility Specific Title V Operating Permit Conditions

I. Facility Description of Operations:

Nashua Corporation (“Permittee”) located in Merrimack, New Hampshire, consists of the Specialty Paper Products Division and the Toner Division. The main operations at the facility include web coating, toner and steam production. Purchased paper, film, and foil base stock is coated to produce a variety of products including adhesive, thermosensitive, thermal and carbonless paper. The primary sources of emissions at the facility are fuel-burning devices and web coating operations which emit criteria pollutants, volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). The facility is a major emitter of SO₂, VOCs and HAPs, and therefore requires a Title V Operating Permit.

II. Permitted Activities:

In accordance with all of the applicable requirements identified in the Permit, the Permittee is authorized to operate the devices and/or processes identified in Sections III, IV, V, and VI within the terms and conditions specified in this permit.

III. Significant Activities Identification:

A. Significant Activities:

The activities identified in Table 1 – Significant Activity Identification - are subject to and are regulated by this Title V Operating Permit.

Table 1 - Significant Activity Identification				
Emission Unit Number	Emission Unit Description (Manufacturer, Model #, Serial #)	Install Date	Exhaust Stack #	Emissions Unit Maximum Permitted Capacity
EU1	<u>Boilers</u> Cleaver Brooks #1, (1)DL-60 LH, WL1388	1969	#144	1. The maximum heat input of each boiler is limited to 60 MMBTU/hr which is equivalent to: <ul style="list-style-type: none"> a) 400 gallons/hour of #6 fuel oil assuming a heating value of 150,000 BTU/gallon for #6 fuel oil; or b) 58,824 scf/hour of natural gas assuming a heating value of 1,020 BTU/scf for natural gas. 2. Maximum sulfur content of #6 fuel oil shall be limited to 1.5 % by weight.
EU2	Cleaver Brooks #2, (1)DL-60 LH, WL 1484	1971	#142	

Table 1 - Significant Activity Identification

Emission Unit Number	Emission Unit Description (Manufacturer, Model #, Serial #)	Install Date	Exhaust Stack #	Emissions Unit Maximum Permitted Capacity
EU3	<u>Emergency Fire Pump</u> Fire Diesel Pump-Cummins, NT-280-F, 10225510	1971	#43	<ol style="list-style-type: none"> Rated output-255 HP EU3 shall be limited to less than 500 hours during any consecutive 12-month period; and The maximum fuel flow rate is 15.2 gallons per hour of diesel with 0.4% sulfur by weight.
EU4	<u>Coaters</u> Paper Coater #17 ¹ /Steam Dryer	1970	#162,163, 165, 169, 172, 175	<p>VOC emissions from paper coating operations at this facility shall be limited at all times to an emission rate of 2.9 lb VOC/gal of coating.</p> <p>Organic HAP emissions from paper coating operations shall be limited to 20 percent of the mass of coating solids applied for each month equivalent to 0.2 lb HAP emitted per lb coating solids applied. The Permittee shall comply with organic HAP limit by December 5, 2005.</p>
EU5	Paper Coater #18/NG Dryer	1970	#182, 183, 186	
EU6	Paper Coater #19/Steam Dryer/SRS ²	1971	#66, 67, 203, 209, 210, 211, 212, 213,	
EU7	Paper Coater #20/Steam Dryer;	1972	#231, 233, 239, 244, 245	
EU8	<u>Specialty Chemicals</u> Color Room #3 ³ (Reactors 1, 2, 3, 4 & 5)	1978	#2, 5, 6, 11, 13, 14, 78	Styrene-butadiene polymer production shall be limited to a maximum of 299 hours during any calendar year.
EU9 EU10	<u>Toner Production</u> Elfotec Buss Extruder TCS-70 Elfotec Buss Extruder TCS-100	1997 1999	#400	<ol style="list-style-type: none"> The Elfotec Buss Extruder TCS-70 shall be limited to a maximum throughput of 250 lbs/hr. The Elfotec Buss Extruder TCS-100 shall be limited to a maximum throughput of 1,200 lbs/hr. Elfotec
EU11	<u>Soil Remediation Project</u> Air Sparge/Soil Vapor Extraction (AS/SVE) System		Fugitive	Toluene emissions from EU14 shall be limited to 8 lb/hr ⁴ averaged over 24 hrs and 25 tpy.
Facility-wide NOx emissions shall be limited to 49.5 tons during any consecutive 12-month period.				

¹ Coater 17, 18 and 20 are used for the application of water-based coatings only.² Coater 19 is operated without SRS when applying water-based coatings. When solvent-based coatings are applied the Coater 19 is always operated with SRS.³ Reactors 1, 3, and 5 in Color Room 3 are dedicated to water-based coatings and reactors 2 & 4 are dedicated to solvent-based coatings.⁴ Emissions from Soil Remediation process shall be limited to 8.0 lb/hr and 25 tpy pending the final confirmation by modeling and DES approval.

B. Stack Criteria:

The stacks indicated in Table 2 – Stack Criteria for the significant devices indicated in Table 1 shall discharge vertically without obstruction (including rain caps) and meet the following criteria in accordance with the state-only modeling requirements specified in Env-A 1400 and the federally enforceable National Ambient Air Quality Standards (NAAQS).

Table 2 – Stack Criteria					
Emission Unit #	Stack #	No. of Stacks	Minimum Stack Height (feet) Above Ground Level	Minimum Stack Flow Rate (acfm)	Maximum Stack Diameter or Dimensions (inches)
EU1 Boiler #1	144	1	66.7	24,696	42
EU2 Boiler #2	142	1	66.7	24,696	42
EU3 Fire Pump	43	1	11.5	200	6
EU4 Coater #17	162 ⁵	2	31.6	22,640	22 x 22
	163	1	30.7	5,335	20 x 21
	165 ⁵	2	48	18,731	23 x 20
	169 ⁵	2	30.7	5,240	20x 21
	172 ⁵	2	33.5	24,571	22 x 22
	175 ⁵	2	33.5	12,148	22 x 22
EU5 Coater #18	182 ⁵	2	34.3	20,978	22 x 22
	183 ⁵	2	38.6	21,733	22 x 22
	186 ⁵	2	31.4	29,962	22 x 22
EU6 Coater #19 & SRS	66	1	28	15,000	24
	67	1	28	15,000	24
	203	1	47.8	15,433	31 x 39
	209	1	34.3	5,906	29
	210	1	34.3	14,374	29
	211	1	34.3	15,129	29
	212	1	34.3	11,623	29
	213	1	34.3	15,156	29
EU7 Coater #20	231	1	46.0	10,836	95 x 60
	233	1	45	10,193	95 x 60
	239	1	47	11,261	39 x 42
	244	1	45	11,677	95 x 60
	245	1	45	4,691	59 x 60

⁵ Each of these two stacks vents into a common rain cap. The stack dimensions specified in Table 2 are the maximum dimensions for each stack. See Compliance Plan Section VIII.B.

Table 2 – Stack Criteria					
Emission Unit #	Stack #	No. of Stacks	Minimum Stack Height (feet) Above Ground Level	Minimum Stack Flow Rate (acfm)	Maximum Stack Diameter or Dimensions (inches)
EU8 Color Room #3	2	1	26	3	2
	5	1	24	3	2
	6	1	29	3	1.5
	11	1	32	3	1.5
	13	1	38	3	2
	14	1	34	3	2
	78	1	33	3	7
EU9 & EU10 Toner	400	1	23	4,000	13.6

Changes to the state-only requirements⁶ pertaining to stack parameters (set forth in this permit), shall be permitted only when an air-quality impact analysis, which meets the criteria of Env-A 606 and Env-A 1400, is performed either by the facility or the DES (if requested by the facility in writing) in accordance with the “DES-ARD Procedure for Air Quality Impact Modeling”. All air modeling data shall be kept on file at the facility for review by the DES upon request.

IV. Insignificant Activities Identification:

All activities at this facility that meet the criteria identified in Env-A 609.04 shall be considered insignificant activities. Emissions from the insignificant activities shall be included in the total facility emissions for the emission-based fee calculation described in Section XXIII of this Permit.

V. Exempt Activities Identification:

All activities identified in Env-A 609.03(c) shall be considered exempt activities and shall not be included in the total facility emissions for the emission based fee calculation described in Section XXIII of this permit.

VI. Pollution Control Equipment/Technique Identification:

The device identified in Table 3 – Pollution Control Equipment Identification, is considered pollution control equipment for each identified activity.

⁶ The term “state-only requirement” is used to refer to those requirements that are not federally enforceable but are state requirements as defined in Env-A 101.263.

Table 3 – Pollution Control Equipment Identification

Pollution Control Equipment Number (PCE#)	Description of Equipment	Minimum or Manufacturer's Efficiency of Equipment	Activity
PCE1	Solvent Recovery System (SRS)	85% ⁷	Controls VOC emissions from Coater 19.
PCE2	Baghouse/Elfotec	99.9%	PCE3-PCE9 control particulate matter emissions from Toner production.
PCE3	Baghouse/Mikropul	99.9%	
PCE4	Baghouse/Spencer	99.9%	
PCE5	Baghouse/Spencer	99.9%	
PCE6	Baghouse/DCE	99.9%	
PCE7	Baghouse/Torit	99.9%	
PCE8	Baghouse/WAF	99.9%	

VII. Alternative Operating Scenarios:

No alternative operating scenarios were identified for this permit.

VIII. Applicable Requirements:**A. State-only Enforceable Operational and Emission Limitations:**

The Permittee shall be subject to the state-only operational and emission limitations identified in Table 4 – State-only Enforceable Operational and Emission Limitations, below.

Table 4 – State-Only Enforceable Operational and Emission Limitations

Item #	Regulatory Cite	Applicable Emission Unit	Applicable Requirements
1.	Env-A 1404.01(d) Compliance Documentation	Facility Wide	In accordance with Env-A 1404.01(d), documentation for the demonstration of compliance shall be retained at the facility, and shall be made available to the DES for inspection.
2.	Env-A 1406.01 Methods of Demonstrating Compliance	Facility Wide	In accordance with Env-A 1406.01, the owner of any device or process, that emits a regulated toxic air pollutant, shall determine compliance with the ambient air limits (AALs) by using one of the methods provided in Env-A 1406.02, Env-A 1406.03, Env-A 1406.04, Env-A 1406.05 or Env-A 1406.06.

⁷ The Permittee uses SRS to comply with VOC RACT, Env-A 1400 and 40 CFR 63 Subpart JJJJ requirements. The solvent recovery efficiency shall be maintained at the most stringent level that meets all the requirements.

Table 4 – State-Only Enforceable Operational and Emission Limitations			
Item #	Regulatory Cite	Applicable Emission Unit	Applicable Requirements
3.	Env-A 1400 Demonstrating Compliance Through an Add-on Control Equipment	EU6	Emissions from coater #19 dryer shall be vented to a SRS when applying solvent coatings for which pollution control equipment is required to demonstrate compliance with Env-A 1400. The recovery efficiency of SRS shall be 85% or higher. It may be modified as necessary by modeling required by Compliance Plan in section VIII.B.
4.	RSA 125-I:5 IV Revision to the List of RTAPs	Facility Wide	In accordance with RSA 125-I:5 IV, if DES revises the list of regulated toxic air pollutants (RTAPs) or their respective AALs or classifications under RSA 125-I:4, II and III, and as a result of such revision the Permittee is required to obtain or modify the Permit under the provisions of RSA 125-I or RSA 125-C, the Permittee shall have 90 days following publication of notice of such final revision in the New Hampshire Rulemaking Register to file a complete application for such permit or permit modification. DES shall include as conditions in any permit issued as a result of a revision to the list of RTAPs a compliance plan and a schedule for achieving compliance based on public health, economic and technical considerations, not to exceed 3 years.
5.	Env-A 1406.02 & TP-BP-0636 Air Dispersion Modeling Analysis	EU15	Toluene emissions from AS/SVE system shall be limited to 8 lb/hr, during any 12-month period, averaged over 24-hour period, and to 25 tons per year.
6.	Env-A 404.01 Limitations of SO ₂ Emissions from Class B Major Sources	Facility wide	The average emission rate of sulfur dioxide shall not exceed 1.6 lbs SO ₂ per million BTU gross heat input, which is equivalent to no. 6 oil with 1.5 percent sulfur by weight.

B. Compliance Plan

1. To demonstrate compliance with the NAAQS specified in Env-A 300 DES modeled emissions from Boilers #1& #2 using the current stack heights of 67 ft and #6 fuel oil with 1.5% sulfur content. The maximum criteria pollutant impacts were in compliance with all NAAQS.
2. To demonstrate compliance with the AALs specified in Env-A 1400 the Permittee evaluated RTAP emissions from coaters, toner production, SRS and Color Room using ISC3 and Screen3 models. All devices were modeled at the current stack heights and were assumed to have vertical and unobstructed exhausts with the exception of color room condenser stack. Based on the above assumption, the Permittee passed the modeling with the exception of four compounds: formaldehyde, toluene, ammonia and aniline.
3. Permittee shall demonstrate compliance with Env-A 1400, by July 31, 2004, by implementing the following steps:
 - a. Remove all the caps from :

- i. Coater stack 17 zone 2;
- ii. Coater stack 18 zone 2;
- iii. Coater stack 19 zones 1, 2, 3 & 4; and
- iv. coater stack 20 zones 1& 2.
- b. Install non-restrictive rain caps on all the above modified coater stacks and combine the stacks with two vents, on Coaters #17 and #18, into one stack;
- c. Install a 20-foot stack extension on coater 20; and
- d. Review the possibility of reformulation or limited process restrictions to comply with the AALs for formaldehyde, ammonia and aniline.
4. By July 31, 2004 the Permittee shall demonstrate that all RTAP emissions from the facility are below their corresponding AALs.
5. Revise Table 2-Stack Criteria to reflect new stack parameters.

C. Federally Enforceable Operational and Emission Limitations

The Permittee shall be subject to the federally enforceable operational and emission limitations identified in Table 5 – Federally Enforceable Operational and Emission Limitations below:

Table 5 – Federally Enforceable Operational and Emission Limitations			
Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
1.	<u>The Sulfur Content of Natural Gas</u> The sulfur content of propane/natural gas shall not exceed 5 grains of sulfur per 100 cubic feet.	Facility wide	40 CFR Part 52 ⁸
2.	<u>The Sulfur Content of No. 6 Fuel Oil</u> The sulfur content of No. 6 fuel oil shall not exceed 1.5% sulfur by weight.	EU1 & EU2	Env-A 304
3.	<u>Emergency Generators</u> The emergency generators, including fire pumps, at a stationary source operating less than 500 hours each during any consecutive 12 month-period and having combined theoretical potential emissions of NO _x , from all such generators limited to less than 25 tons for any consecutive 12-month period, shall be exempt from the requirements of Env-A 1211.02(i).	EU3	Env-A 1211.02(j)
4.	<u>VOC RACT Requirements</u> In accordance with Env-A 1204.10(c) <i>Applicability Criteria and Compliance Standards for Coating of Paper, Fabric, Film and Foil Substrates</i> , paper coating operations at this facility shall be limited at all times to the following rates: For processes applying a coating to any woven or non-woven, fibrous or non-fibrous substrate, including paper shall be limited at all times to an emission rate of 2.9 lb VOC/gal of coating, as applied, excluding water and exempt	EU4, EU5, EU6, EU7	Env-A 1204.10(c)

⁸ Env-A 402.03, effective December 27, 1990, was adopted as part of the State Implementation Plan (SIP) on September 14, 1992 and is still considered federally enforceable until such time as the SIP is amended and approved by EPA.

⁹ The Permittee shall meet more stringent recovery efficiency limit for the SRS to comply with Env-A 1400 and 40 CFR 63 Subpart JJJJ requirements.

Table 5 – Federally Enforceable Operational and Emission Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
	<p>compounds.</p> <p>As an alternative to the applicable emission rate limit specified above, paper, fabric, film and foil substrate coating operations meeting the applicability criteria of this section may satisfy the requirements of this section by implementing add-on control techniques or a bubble and complying with the solid-based emission rate limit calculated using the procedures of Env-A 1204.04(c).</p> <p>The SRS shall be operated at a minimum recovery efficiency of 60%⁹ to demonstrate compliance with the provisions of Env-A 1204.10.</p>		
5.	<p><u>Facility Wide NO_x Limits</u></p> <p>The Permittee has accepted a Permit restriction limiting the facility wide NO_x emissions to less than 49.5 tons during any consecutive 12-month period in accordance with Env-A 1211.02(n) to opt out of the requirements of NO_x RACT.</p>	Facility Wide	Env-A 1211.02(n)
6.	<p><u>Accidental Release Program Requirements.</u></p> <p>Currently, substances regulated under 40 CFR 68 are stored at the facility in greater amounts than the applicable threshold quantities established in 40 CFR 68.130. Administrative controls will be established in order to ensure that inventories of regulated substances are maintained below the specified threshold quantities. The facility is subject to the Purpose and General Duty clause of the 1990 Clean Air Act, Section 112(r)(1). General Duty includes the following responsibilities:</p> <ul style="list-style-type: none"> a) Identify potential hazards which result from accidental chemical releases using appropriate hazard assessment techniques; b) Design and maintain a safe facility; c) Take steps necessary to prevent releases; and d) Minimize the consequences of accidental releases, which do occur. <p><u>Emergency Response Plan</u></p> <p>Vinyl acetate is stored at the facility in quantities above the threshold level. The facility submitted an Emergency Response Plan to EPA on 22 June 1999. This plan included the information specified in 40 CFR 68, Subpart E.</p>	Facility Wide	40 CFR 68
7.	<p><u>NAAQS Standards</u></p> <p>The Facility shall comply with the NAAQS and the applicable requirements of RSA 125-C:6, RSA 125-C:11 and Env-A 606.04.</p>	Facility Wide	RSA 125-C:6, RSA 125-C:11 and Env-A 606.04

Table 5 – Federally Enforceable Operational and Emission Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
8.	<u>40 CFR 63 Subpart I</u> <i>National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks</i> The Permittee shall limit time of its styrene-butadiene polymer production to a maximum of 299 hours during any calendar year in order to opt out of Subpart I, in accordance with 40 CFR 63.190 (d).	EU8	40 CFR 63 Subpart I
9.	<u>40 CFR 63 Subpart JJJJ Compliance</u> a) Nashua Corporation is a subject to 40 CFR 63 Subpart JJJJ <i>Paper and Other Web Surface Coating</i> provisions. The Permittee shall limit organic HAP emissions to no more than 20 percent of the mass of coating solids applied for each month equivalent to 0.2 lb HAP emitted per lb coating solids applied ¹⁰ . b) Nashua Corporation shall comply with 40 CFR 63 Subpart JJJJ by means of combination of compliant coatings and a monthly liquid-liquid material balance for SRS. c) Nashua Corporation shall be in compliance with 40 CFR 63 Subpart JJJJ by December 5, 2005. d) Nashua Corporation shall submit a Notification of Compliance Status as specified in 40 CFR 63.9(h) by August 2, 2006. e) Nashua Corporation shall develop a start-up, shutdown, and malfunction plan (SSMP) by December 5, 2005.	EU4, EU5, EU6, EU7	40 CFR 63.3320(b)(3), 63.3330(a), 63.3370, 63.10(d)(5)(ii)
10.	<u>Demonstrating Compliance Through an Add-on Control Equipment</u> Emissions from Coater #19 dryer, when applying solvent coatings for which pollution control equipment is required to demonstrate compliance with the VOC RACT and 40 CFR 63 Subpart JJJJ, shall be vented to a SRS.	EU6	40 CFR 63 Subpart JJJJ
11.	<u>VOC Retained in Coating</u> If the facility chooses to take into account the mass of VOC matter retained in the coated web after curing or drying or otherwise not emitted to the atmosphere then a testing protocol shall be developed by the facility to determine the mass of VOC retained in the coated web and submit this protocol to the Administrator for approval with a site-specific test plan under § 63.7(f).	EU4, EU5, EU6 & EU7	40 CFR 63.3360(g)
12.	<u>Opacity from Fuel Burning Devices Installed Prior to May 13, 1970</u> No owner or operator shall cause or allow average opacity from fuel burning devices installed on or prior to May 13, 1970 in excess of 40 percent for any continuous 6-minute period.	Facility wide	Env-A 2003.01 (formerly Env-A 1202.01)
13.	<u>Opacity from Fuel Burning Devices Installed after May 13, 1970</u> No owner or operator shall cause or allow average opacity from fuel burning devices installed after May 13, 1970 in excess of 20 percent for any continuous 6-minute period.	Facility wide	Env-A 2003.02 (formerly Env-A 1202.02)

¹⁰ The emission standard that the facility chose to comply with in §63.3370(a)(6)(i) is expressed in kg units, 0.2 kg organic HAP per kg coating solids applied.

Table 5 – Federally Enforceable Operational and Emission Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
14.	<p><u>Activities Exempt from Opacity Standards</u></p> <p>The average opacity shall be allowed to be in excess of those standards specified in Table 5, Items 13 & 14 above for one period of 6 continuous minutes during startup, shutdown, malfunction, soot blowing, grate cleaning, and cleaning of fires.</p> <p>Exceedances of the opacity standard shall not be considered violations of this part if the source demonstrates to the division that such exceedances were the result of the adherence to good boiler operating practices which, in the long term, results in the most efficient or safe operation of the boiler.</p>	EU1& EU2	Env-A 2003.04(c)(d)
15.	<p><u>PM Emissions Standards from Fuel Burning Devices Installed on or Prior to May 13, 1970</u></p> <p>No owner or operator shall cause or allow emissions of particulate matter from fuel burning devices installed on or prior to May 13, 1970 in excess of the rates set forth below, where:</p> <p>I= the maximum gross heat input rate in 10^6 BTU/hr; and</p> <p>E=the maximum allowable particulate matter emission rate in lb/10^6 BTU.</p> <p>For devices with I equal to or greater than 10 but less than 10,000, E shall be calculated using the formula below:</p> $E = 0.880I^{-0.166}$	Facility wide	Env-A 2003.06(b)(2) (formerly Env-A 1202.05)
16.	<p><u>PM Emissions Standards from Fuel Burning Devices Installed after May 13, 1970 but before January 1, 1985</u></p> <p>No owner or operator shall cause or allow emissions of particulate matter from fuel burning devices installed after May 13, 1970 but before January 1, 1985 in excess of the rates set forth below, where:</p> <p>I= maximum gross heat input rate in 10^6 BTU/hr; and</p> <p>E=the maximum allowable particulate matter emission rate in lb/10^6 BTU.</p> <p>For devices with I equal to or greater than 10 but less than 250, E shall be calculated using the formula below:</p> $E = 1.028I^{-0.234}$	Facility wide	Env-A 2003.07(c)(2) (formerly Env-A 1202.06)
17.	<p><u>PM Emission Standards for an Existing Process Device Installed Prior to or on Feb. 18, 1972.</u></p> <p>Particulate matter emissions from an “Existing Device”, with process weight rate up to 60,000 pounds per hour, shall not exceed the emission rate averaged over a one hour period as specified in the formula below:</p> $E = 5.05 \times P^{0.67}$ <p>Where:</p> <p>E=the maximum allowable particulate matter emission rate in lb/hr; and</p> <p>P=the process weight rate in tons per hour.</p>	Facility wide	Env-A 2103.02(b)(1) (formerly Env-A 1203.09)

Table 5 – Federally Enforceable Operational and Emission Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
18.	<u>PM Emission Standards for New Process Devices Installed after Feb. 18, 1972.</u> Particulate matter emissions from a “New Device”, with process weight rate up to 60,000 pounds per hour, shall not exceed the emission rate averaged over a one hour period as specified in the formula below: $E = 4.10 \times P^{0.67}$ Where: E=the maximum allowable particulate matter emission rate in lb/hr; and P=the process weight rate in tons per hour.	Facility wide	Env-A 2103.02(c)(1) (formerly Env-A 1203.09)
19.	<u>Opacity from Processes</u> Unless otherwise specified in Env-A 2100, no person shall cause or allow visible fugitive emissions or visible stack emissions for any process, manufacturing or service-based industry to exceed an average of 20 percent opacity for any continuous 6-minute period, except where opacity is specified differently for fuel burning devices in Env-A 2000.	Facility Wide	Env-A 2107.01(a) (formerly Env-A 1203.05)

D. Emission Reductions Trading Requirements

The Permittee shall be authorized under the applicable requirements of Env-A 3000 *Emissions Reductions Credit (ERCs) Trading Program* and Env-A 3100 *Discrete Emissions Reductions (DERs) Trading Program* to bank or trade ERCs or DERs. The ERCs (97VNC01C) may not be traded but may be used, at a later time, by the facility in accordance with ERC Certificate dated June 26, 1998. The DERs: 96NNC02C, 97NNC02C, 95VNC03C and 96VNC03C may be traded in accordance with Notices of Generation of DERs dated May 19, 1998 and July 19, 1998 and any notices thereafter.

E. Monitoring and Testing Requirements:

The Permittee is subject to the monitoring and testing requirements as contained in Table 6 – Monitoring/Testing Requirements, below:

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
1.	Allows for adequate dispersion of HAPs and other regulated pollutants	Conduct an annual inspection of each stack and fuel burning device. Inspections shall be focused on identifying holes, leaks, deposits, deficiencies, or deterioration of equipment and stacks and the manufacturer’s recommended periodic physical, mechanical, and electrical system checks for the fuel burning equipment	Annually	Facility Stacks and boilers	40 CFR 70.6(a)(3) Federally Enforceable & Env-A 609.05 (eff 4/26/03)

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
2.	Sulfur content of liquid fuels	The operator shall conduct testing in accordance with appropriate ASTM test methods or retain delivery tickets that certify the weight percent of sulfur for each delivery of fuel oil to determine compliance with the sulfur content limitation provisions specified in this permit for liquid fuels.	For each delivery of fuel oil to the facility	Facility Wide	Env-A 806.02 (eff 10/31/02)
3.	Sulfur content of gaseous fuels	Conduct testing to determine the sulfur content, expressed as hydrogen sulfide, of gaseous fuels. The sulfur content of gaseous fuels shall not exceed 5 grains of sulfur per 100 cubic feet.	Upon written request by EPA or DES	Facility Wide	Env-A 806.03 (eff 10/31/02)
4.	Particulate Matter	The following requirements apply to all baghouses listed in Table 3. a) The Permittee shall conduct monitoring, for each operating day, of the pressure differential across each baghouse unit in accordance with manufacturer's recommended operating parameters. Each reading shall be recorded and kept on file at the facility. b) The Permittee shall change out baghouse filters/cartridges in a manner consistent with manufacturer's recommendations. Each change shall be recorded and kept on file at the facility. c) The Permittee shall conduct an inspection of each unit at least annually. The inspection shall be conducted by plant personnel familiar with the operation of the device. Records of inspections and subsequent maintenance conducted shall be kept on file at the facility .	Daily whenever the EU9 & EU10 are in operation and annually	PCE2-PCE8	Env-A 609.05 & 40 CFR 70.6(a)(3) Federally Enforceable
5.	Opacity Measurements	Opacity measurements shall be conducted following the procedures set forth in 40 CFR Part 60, Appendix A, Method 9, <i>Visual Determination of the Opacity of Emissions from Stationary Sources</i> .	Upon request by DES	EU1, EU2, EU3	Env-A 807.02 eff 10/31/02
6.	Determination of Compliance for VOC Coatings	Unless determination of compliance with Env-A 1204 is required by DES, it shall be acceptable for a stationary source, subject to Env-A 1204, to provide VOC coating information based upon supplier or stationary source formulation data, or another method determined to be representative of the physical properties of the coating. Such information shall be acceptable as prima facie evidence of the actual VOC content of the coating and shall include all data required. Whenever compliance determination with Env-A 1204 is requested by DES, the owner or operator shall use one of the following methods, as applicable: a) Method 24 as described in 40 CFR 60, Appendix A, using the 60-minute bake time procedure for test ASTM D2369-01; or b) Method 24A as described in 40 CFR 60, Appendix A. c) An alternative method approved by DES.	Upon use of new coatings subject to VOC RACT and whenever changes in coating constituents or coating formulations are made Upon request by DES	EU4, EU5, EU6, EU6, EU7 & EU8	Env-A 804.03(a) & Env-A 804.04(a) (eff 10/31/02) formerly Env-A 803.03 Env-A 809.01

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
7.	Control of VOC emissions through the use of add-on control system	<p><u>Add-on Control Systems</u></p> <p>Any requested compliance testing shall be planned and carried out in a manner consistent with the Compliance Testing conducted between August 17 and September 18, 2000.</p> <p>The following parameters shall be monitored:</p> <p>a) <u>VOC Breakthrough Level</u></p> <p>The SRS shall be operated only in conjunction with the Infra Red (IR) VOC Detector Monitor or other comparable device detecting VOC breakthrough level. When the VOC concentration level reaches 75 ppm, the SRS shall initiate steam regeneration cycle. Coater #19 shall be shut down whenever VOC concentration level reaches the VOC breakthrough level of 250 ppm. The IR VOC detector monitor shall be calibrated monthly according to manufacturer's specifications. The records shall be maintained in a logbook of all calibrations and all coater shutdowns due to the exceedance of the VOC breakthrough level of 250 ppm.</p> <p>b) <u>Alternative Method for Monitoring the VOC Breakthrough Level</u></p> <p>In case the IR VOC Detector monitor fails the Permittee shall use a calibrated manual monitor. The manual monitor shall be calibrated according to manufacturer's specifications. The VOC level shall be measured at the end of the first adsorption cycle, at least once per shift. If the manual monitor reading is higher than 75 ppm, the timer cycle should be shortened to ensure that the regeneration cycle is initiated at 75 ppm reading or prior to that reading. The Permittee shall keep records of the following:</p> <ol style="list-style-type: none"> 1. Time and date when the IR VOC Detector monitor failed and when it is returned to operation; 2. Calibrations of the manual monitor; 3. VOC level measurements of 250 ppm and the unit shutdowns. <p>c) <u>Valves on Carbon Adsorber Beds</u></p> <p>Each valve on the carbon adsorber beds shall be monitored continuously by means of micro switches and a programmable logic controller, and if any valve fails to operate Coater #19 shall be shut down automatically.</p> <p>d) <u>Steam Regeneration Cycles</u></p> <p>The steaming cycles of the carbon adsorber beds shall be initiated by timers. The steaming cycles shall be monitored by means of a chart recorder as a redundancy check. The operator shall examine the</p>	<p>Continuously</p> <p>Once per shift</p> <p>Continuously</p> <p>For each operating day</p>	EU6	Env-A 901.06 (m)(4) Federally Enforceable

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
		<p>chart each operating day and if steam regeneration cycles are not repeating at the prescribed intervals, the operator shall shut down Coater #19. The records of steaming cycles shall be kept for days the coater is in operation.</p> <p>e) <u>SRS Filters</u> Particulate filters on the SRS shall be maintained and changed according to manufacturer's specifications.</p> <p>f) <u>SRS Liquid Meters</u> The Permittee shall install, calibrate, maintain and operate according to manufacturer's specifications a device that indicates the cumulative amount of volatile matter recovered by the solvent recovery. The meters shall be certified by the manufacturer to be accurate to within +/- 2.0 percent by mass.</p> <p>g) <u>Bypass Monitoring</u> The facility shall monitor bypass of SRS on Coater #19 to ensure that all VOC emissions are exhausted through the SRS while VOC based coatings are being applied. The control circuitry shall be checked monthly to ensure that the solvent feed pump to Coater #19 cannot operate when the bypass valve is open.</p>	<p>As needed</p> <p>Calibrate Every 6 months</p> <p>Monthly</p>		<p>40 CFR 63.3350(d)(2)</p> <p>40 CFR 63.3350(c)(2)</p>
8.	Control of VOC emissions through the use of add-on control system	<p><u>SRS Efficiency Calculations</u> The efficiency of the SRS shall be calculated within two working days after the completion of each coating run. If the coating run lasts for more than a week, the efficiency shall be calculated at the end of each week using the following formula:</p> $R = \left[\frac{A}{B - C + D - E} \right] \times 100$ <p>Where: R=Collection and recovery efficiency in percent; A¹¹= Total solvent recovered from the process expressed in lbs (final minus initial meter G reading) x (7.25 lbs/gal); B= Solvent used in the process expressed in pounds (final minus initial meter A reading) x (7.25 lbs/gal); C=Solvent gained or lost in the process during the coating run expressed in pounds (inventory of process solvent, final minus initial meter C, D, E & F readings)¹²x (7.25 lbs/gal);</p>	2 working days after completion of each coating run or weekly	EU6	Env-A 804.06 Federally Enforceable

¹¹ For the drawing of meters location refer to Davac process diagram in *Nashua Corp Pretest Report and proposed Test Methods*.

¹² Inventory includes any coating or solvent left in any process lines or in the tanks in Color Room 3 or 4. The coating remaining in the process will be multiplied by the solvent density (7.25 lb/gal). A gain in solvent inventory would be added to the amount used and a loss in inventory would be subtracted from the amount of solvent used.

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
		<p>D= Virgin solvent added to the process expressed in pounds (total amount of virgin solvent added to the process)¹³ x (7.25 lbs/gal);</p> <p>E= Solvent removed from the process as waste or other non-process use (lbs of waste) x (%solvent)¹⁴;</p> <p>The following liquid flow meters shall be utilized in the calculation:</p> <p><u>Meter A:</u> Measures total solvent used in the process from Toluene Underground Storage Tank (UST) in gallons;</p> <p><u>Meter C:</u> Measures total solvent supplied to 3RB50 process in Color Room 3 in gallons;</p> <p><u>Meter D:</u> Measures total solvent supplied to mixing of coatings in Color Room 4 in gallons;</p> <p><u>Meter E:</u> Measures total solvent supplied to viscosity control operation at the Coater 19 in gallons;</p> <p><u>Meter F:</u> Measures total amount of binder, 3RB50, supplied to Color Room 4 in gallons.</p> <p><u>Meter G:</u> Measures total solvent recovered from the process and returned to Toluene UST in gallons.</p>			
9.	Control of VOC emissions through the use of add-on control system	<p><u>Verification Calculation</u></p> <p>For verification purposes the efficiency of SRS shall be calculated using an alternative method and the following formula:</p> $R = \left[\frac{F + G - H}{F - C + D - E} \right] \times 100$ <p>Where:</p> <p>R=Collection and recovery efficiency in percent;</p> <p>F= Solvent flow through meters C,D and E expressed in pounds (final minus initial reading for each meter) x (7.25 lb/gal);</p> <p>G= Toluene UST inventory expressed in pounds taken after meter C, D & E readings (UST inventory) x (7.25 lb/gal);</p> <p>H= Virgin toluene delivery expressed in pounds (amount of toluene delivered to UST) x (7.25 lb/gal).</p> <p>The variation between the Efficiency Calculation and Verification Calculation shall be less than 0.5% by weight. If the variation is greater than 0.5% and it is not due to an error in calculation, the meters shall be recalibrated.</p>	2 working days after completion of each coating run or weekly	EU6	Env-A 804.06

¹³ This includes all toluene and ethyl acetate added to the process anywhere in the system that does not go through meter A. This number, usually, only includes solvent added in the production of binder (3RB50) in Color Room 3. Any deliveries of solvent to the Toluene UST are not included in this total.

¹⁴ The percent of toluene in the waste can be determined by laboratory analysis or by historical data. Solvent removed for the lab analysis or for cleaning purposes is included in calculation but it should not be counted if it is eventually added to the waste stream.

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
10.	Control of VOC emissions through the use of add-on control system	<p><u>Compliance Demonstration with Add-On Control System.</u></p> <p>The facility is subject to Env-A 1204.10, and has chosen to comply with this section for its non-compliant coatings used on Paper Coater #19 by implementing an add-on control system.</p> <p>a) The facility's overall VOC emission reduction efficiency shall be determined, on a solids basis, by the following equation in accordance with Env-A 1204.04:</p> $S = \frac{E_C}{\left(1 - \frac{E_C}{d_A}\right)}$ <p>Where:</p> <p>S =The VOC emission rate limit in terms of lbs VOC/gal of coating solids;</p> <p>d_A =The actual mass density of VOC in the applied surface coating formulation, in lbs/gal. The (Permittee has an option to use the density value of 7.36 lb/gal if running more than one coating);</p> <p>E_C =The emission rate limit prescribed for the applicable coating category. For those processes applying a coating to paper, E_C shall be equal to 2.9 lbs VOC/gal of coating, as applied to the substrate.</p> <p>b) The required overall emission reduction efficiency shall be determined by the following equation:</p> $E = \left(\frac{VOCa - S}{VOCa}\right)100$ <p>Where:</p> <p>E=The required overall emission reduction efficiency in percent;</p> <p>S=The VOC emission rate limit in terms of lbs VOC/gal of coating solids;</p> <p>VOCa=The maximum VOC content of the coatings used in lb VOC/gal solids or the daily weighted average VOC content of the coatings used in lb VOC/gal solids.</p>	2 working days after completion of each coating run or weekly	EU6	Env-A 1204.04(c) New Rule eff 12/31/02 & Env-A 803.03(c) (3) Federally Enforceable
11.	Liquid-liquid material balance compliance demonstration for SRS	<p>The facility shall determine:</p> <p>a) As-purchased HAP mass fraction of each coating material using following procedures:</p> <ol style="list-style-type: none"> Method 311; Method 24; or Formulation data. <p>b) As-applied HAP mass fraction using Equation 1a below:</p>	Monthly	EU6	40 CFR 63.3360(c) & 63.3370

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
		$C_{ahi} = \frac{\left(C_{hi}M_i + \sum_{j=1}^q C_{hij}M_{ij} \right)}{M_i + \sum_{j=1}^q M_{ij}}$ <p>Where:</p> <p>C_{ahi}= Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.</p> <p>C_{hi}= Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.</p> <p>C_{hij}= Organic HAP content of coating material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.</p> <p>M_i= Mass of as-purchased coating material, i, applied in a month, kg.</p> <p>q= Number of different materials added to the coating material.</p> <p>M_{ij}=Mass of material, j, added to as-purchased coating material, i, in a month, kg.</p> <p>c) As-purchased VOC content and coating solids content of each coating material during the month using following procedures:</p> <ol style="list-style-type: none"> Method 24; Formulation data. <p>d) As-applied VOC content using Equation 1b below:</p> $C_{avi} = \frac{\left(C_{vi}M_i + \sum_{j=1}^q C_{vij}M_{ij} \right)}{M_i + \sum_{j=1}^q M_{ij}}$ <p>Where:</p> <p>C_{avi}= Monthly average, as-applied, VOC content of coating material, i, expressed as a mass fraction, kg/kg.</p> <p>C_{vi}= VOC content of coating material, i, expressed as a mass fraction, kg/kg.</p> <p>C_{vij}= VOC content of coating material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.</p> <p>M_i= Mass of as-purchased coating material, i, applied in a month, kg.</p> <p>q= Number of different materials added to the coating material.</p> <p>M_{ij}=Mass of material, j, added to as-purchased</p>			

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
		<p>coating material, i, in a month, kg.</p> <p>e) As-applied coating solids content using Equation 2 below:</p> $C_{asi} = \frac{\left(C_{si} M_i + \sum_{j=1}^q C_{sij} M_{ij} \right)}{M_i + \sum_{j=1}^q M_{ij}}$ <p>Where:</p> <p>C_{asi}= Monthly average, as-applied, solid content of coating material, i, expressed as a mass fraction, kg/kg.</p> <p>C_{si}= Coating solids content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.</p> <p>C_{sij}= Coating solids content of coating material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.</p> <p>M_i= Mass of as-purchased coating material, i, applied in a month, kg.</p> <p>q= Number of different materials added to the coating material.</p> <p>M_{ij}=Mass of material, j, added to as-purchased coating material, i, in a month, kg.</p> <p>f) The VOC collection and recovery efficiency using Equation 7 below:</p> $R_v = \frac{M_{vr} + M_{vret}}{\sum_{i=1}^p C_{vi} M_i + \sum_{i=1}^q C_{vij} M_{ij}} \times 100$ <p>Where:</p> <p>R_v=VOC collection and recovery efficiency, percent.</p> <p>M_{vr}=Mass of VOC recovered in a month, kg.</p> <p>M_{vret}=Mass of VOC retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg, as specified in Table 5, Item 12.</p> <p>p=Number of different coating materials applied in a month.</p> <p>C_{vi}=VOC content of coating material, i, expressed as a mass fraction kg/kg.</p> <p>M_i=Mass of as-purchased coating material, i, applied in a month, kg.</p> <p>q=Number of different materials added to the coating material.</p> <p>C_{vij}=VOC content of material, j, added to as-</p>			

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
		<p>purchased coating material, i, expressed as a mass fraction, kg/kg.</p> <p>M_{ij}=Mass of material, j, added to as-purchased coating material, i, in a month, kg.</p> <p>g) The sum of the mass of all coating materials as-applied on intermittently-controlled work station operating without the SRS during the month.</p> <p>h) The sum of the mass of all coating materials as-applied on intermittently-controlled work station operating with the SRS during the month.</p> <p>i) The total organic HAP emitted for EU6 during the month using Equation 14 below:</p> $H_e = \left[\sum_{i=1}^p M_{Ci} C_{ahi} \right] \left[1 - \frac{R_v}{100} \right] + \left[\sum_{i=1}^p M_{Bi} C_{ahi} \right] - M_{vret}$ <p>Where:</p> <p>H_e=Total monthly organic HAP emitted from Coater #19, kg.</p> <p>p=Number of different coating materials applied in a month.</p> <p>M_{Ci}=Sum of the mass of coating material, i, as applied on intermittently-controlled work station operating in controlled mode, in a month, kg.</p> <p>C_{ahi}=Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.</p> <p>R_v=VOC collection and recovery efficiency, percent.</p> <p>M_{Bi}= Sum of the mass of coating material, i, as-applied on intermittently-controlled work station operating in bypass mode, in a month, kg.</p> <p>M_{vret}=Mass of VOC retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg, as specified in Table 5, Item 12.</p>			

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
12.	Liquid-liquid material balance compliance demonstration for uncontrolled lines	<p>The facility shall determine the organic HAP applied on uncontrolled coating lines using Equation 6 below:</p> $H_m = \sum_{i=1}^p C_{hi} M_i + \sum_{j=1}^q C_{hij} M_{ij} - M_{vret}$ <p>Where:</p> <p>H_m=Total monthly organic HAP applied on Coaters #17, #18 and #20, kg.</p> <p>p=Number of different coating materials applied in a month.</p> <p>C_{hi}=Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.</p> <p>M_i=Mass of as-purchased coating material, i, applied in a month, kg.</p> <p>q=Number of different materials added to the coating material.</p> <p>C_{hij}=Organic HAP content of material, j, added to as-purchased coating material, expressed as a mass fraction, kg/kg.</p> <p>M_{ij}=Mass of material, j, added to as-purchased coating material, i, in a month, kg.</p> <p>M_{vret}=Mass of VOC retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg, as specified in Table 5, Item 12.</p>	Monthly	EU4, EU5, EU7	40 CFR 63.3370(n) (4)

Table 6 – Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
13.	Liquid-liquid material balance compliance demonstration for SRS and uncontrolled lines	<p>Convert the information obtained from Equation 14 & 6 above into the HAP emission rate based on coating solids applied, using Equation 9 below:</p> $L = \frac{H_e + H_m}{\sum_{i=1}^p C_{si} M_i + \sum_{j=1}^q C_{sij} M_{ij}}$ <p>Where:</p> <p>L=Total mass organic HAP emitted per mass of coating solids applied, kg/kg.</p> <p>H_e=Total monthly organic HAP emitted from Coater #19, kg;</p> <p>H_m=Total monthly organic HAP applied on Coaters #17, #18 and #20, kg.</p> <p>p=Number of different coating materials applied in a month.</p> <p>C_{si}=Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.</p> <p>q=Number of different materials added to the coating material.</p> <p>M_i=Mass of as-purchased coating material, i, applied in a month, kg.</p> <p>C_{sij}=Coating solids content of material, j, added to as purchased coating material, i, expressed as mass-fraction, kg/kg.</p> <p>M_{ij}=Mass of material, j, added to as-purchased coating material, i, in a month, kg.</p>	Monthly	EU4, EU5, EU6 & EU7	40 CFR 63.3370(n)(5)(6)
14.	HAPs Compliance Demonstration	<p>The facility is in compliance with § 63.3320(b)(3) if:</p> <ol style="list-style-type: none"> All operating parameters required to be monitored under § 63.3350 are maintained at the values established in Table 6, Item 7 (g) & (h); and The total mass of organic HAP emitted by the facility based on coating solids applied is no more than 0.20 kg HAP per kg of coating solids or 0.20 kg HAP per kg of coating solids. 	Monthly	EU4, EU5, EU6 & EU7	40 CFR 63.3320(b)(3)

F. Performance Testing Requirements:

Compliance testing shall be planned and carried out in accordance with the following schedule:

Table 7 - Performance Testing Requirements		
Item #	Requirement	Regulatory Cite
1.	If Permittee chooses to use stack test-derived NO _x emission factors for calculating the emission-based fee, then the performance testing for NO _x shall be required in accordance with Env-A 802.	40 CFR 60.8 Env-A 802

G. Recordkeeping Requirements¹⁵:

The Permittee shall be subject to the recordkeeping requirements identified in Table 8 – Applicable Recordkeeping Requirements below:

Table 8 – Applicable Recordkeeping Requirements				
Item #	Applicable Recordkeeping Requirement	Records Retention/Frequency of Recordkeeping	Applicable Emission Unit	Regulatory Cite
1.	<u>Retention of Records:</u> The Permittee shall retain records of all required monitoring data, recordkeeping and reporting requirements, and support information for a period of at least 5 years from the date of origination.	Retain for a minimum of 5 years	Facility Wide	40 CFR 70.6(a)(3)(ii)(B)
2.	<u>Monitoring Data:</u> The Permittee shall maintain records, as specified in Table 6, of monitoring and testing requirements, including summary of preventative maintenance and repair records for pollution control equipment listed in Table 3.	Continuously	Facility Wide	40 CFR 70.6(a)(3)(iii)(A) & 40 CFR 63.3410
3.	<u>Emissions from AS/SVE</u> The Permittee shall maintain daily and annual records of toluene emissions as specified in Table 4, Item 5.	Annually and Daily	EU11	Env-A 1406.02 State Only Requirement

¹⁵ On April 23, 1999, DES promulgated new Env-A 900 regulations in an attempt to streamline the recordkeeping and reporting requirements sections of the New Hampshire Code of Administrative Rules. Until such time that the new Env-A 900 regulations are approved and adopted into the State Implementation Plan (SIP) by EPA, all Title V permits will be incorporating the old Env-A 900 regulations (which became effective on November 11, 1992), unless the new Env-A 900 regulations are more stringent. The recordkeeping and reporting requirements contained in this permit are those requirements, which the facility shall be required to comply with. These recordkeeping and reporting requirements shall fall under the Permit Shield provisions as contained in Section XIII of this permit.

Table 8 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirement	Records Retention/Frequency of Recordkeeping	Applicable Emission Unit	Regulatory Cite
4.	<u>General Recordkeeping Requirements:</u> Monthly records of fuel utilization and hours of operation for each fuel burning unit shall be kept at the facility and contain the following information: <ol style="list-style-type: none"> Consumption; Fuel type; Sulfur content as percent sulfur by weight of fuel; Btu content per gallon or cubic feet of fuel. 	Monthly	Facility Wide	Env-A 901.03 Federally Enforceable
5.	<u>Insignificant Emissions</u> The Permittee shall maintain annual records of actual emissions for each significant and insignificant activity for determination of emission-based fees.	Annually	Significant and insignificant activities	Env-A 704.03 Federally Enforceable
6.	<u>Records on Process Operation:</u> The Permittee shall maintain monthly records regarding process operations including the following information for each process: <ol style="list-style-type: none"> Monthly hours of operation for each process listed in Table 1; Monthly records of the total quantities of raw materials used in each process listed in Table 1; and Annual records shall be kept on the hours of operation of the feed lines that are intended to operate in styrene-butadiene polymer production. 	Monthly, and Annually	Facility Wide EU8	Env-A 901.04 Federally Enforceable 40 CFR 63.160 (a), Subpart I
7.	<u>VOC Recordkeeping Requirements</u> The Permittee shall record and maintain the following information at the facility: <ol style="list-style-type: none"> Identification of each VOC-emitting process or device; Records shall be kept regarding the hours of operation for each process; <ol style="list-style-type: none"> Days of operation per calendar week during normal operating schedule; Hours of operation per day during normal operating schedule and for a typical high ozone season day if different from the normal operating schedule; and Hours of operation per year under normal operating conditions. The following VOC data for each VOC emitting device: <ol style="list-style-type: none"> Actual VOC emissions for each 	Continuously	Facility Wide	Env-A 901.06 Federally Enforceable

Table 8 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirement	Records Retention/Frequency of Recordkeeping	Applicable Emission Unit	Regulatory Cite
	<p>calendar year, in tons;</p> <ol style="list-style-type: none"> 2. Typical VOC emissions for a high ozone season day during that calendar year, in pounds per day; and 3. The emission factors and the origin of the emission factors used to calculate the VOC emissions. <p>d) For all surface coating operations in addition to the requirements of 901.06(d), the following data shall be maintained and recorded as follows:</p> <ol style="list-style-type: none"> 1. Supplier; 2. Name; 3. Type; 4. Identification number; 5. Density described as lbs/gal; 6. Total volatiles content described as weight percent; 7. Water content described as weight percent; 8. Exempt solvent content described as weight percent; 9. VOC content described as weight percent; and 10. Solids content described as volume percent; 			
8.	<p><u>VOC Recordkeeping Requirements For All Surface Coating Operations Using Diluents</u></p> <ol style="list-style-type: none"> a) The Permittee shall record and maintain the following information at the facility: <ol style="list-style-type: none"> 1. Diluent's name and identification number; 2. Diluent's solvent density described in lbs/gal; 3. Diluent's VOC content described as weight percent; 4. Diluent's exempt solvent content described as weight percent; 5. Volume of diluents VOC described as gal; 6. Diluent's/solvent ratio described as gal diluent's solvent/gal coating. b) Process information for each surface coating operation, for a typical high ozone season day, if different from the normal operating schedule, including: <ol style="list-style-type: none"> 1. Method of application; 2. Number of coats for coating operations; 	Continuously	Facility Wide	Env-A 901.06 Federally Enforceable

Table 8 – Applicable Recordkeeping Requirements

[illegible]

Table 8 – Applicable Recordkeeping Requirements				
Item #	Applicable Recordkeeping Requirement	Records Retention/Frequency of Recordkeeping	Applicable Emission Unit	Regulatory Cite
	<p>in pounds per day and:</p> <ol style="list-style-type: none"> 3. Theoretical potential emissions for the calculation year for each fuel burning device; 4. Actual NO_x emissions for each fuel-burning device; 5. Records on facility wide NO_x emissions on monthly basis and for consecutive 12-month rolling period. 			

H. Reporting Requirements:

The Permittee shall be subject to the reporting requirements identified in Table 9– Applicable Reporting Requirements, below:

Table 9 – Applicable Reporting Requirements				
Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Cite
1.	<u>Summary Report of Monitoring and Testing and Permit Deviation</u> The Permittee shall submit a summary report of all permit deviations, and testing and monitoring data as specified Table 6 Items 1, 2, 3 & 4 of this permit, including a Permit Deviation Report.	Every 6 months (by July 31 and January 31 for preceding semi-annual period)	Facility Wide	40 CFR 70.6(a)(3)(iii)(A)
2.	<u>Butadiene and Styrene Emissions</u> The Permittee shall submit the hours of operation of feed lines that apply to styrene-butadiene polymer production as specified in Table 8, Item 6 (c).	Annually (no later than April 15 th of the following year)	EU10	40 CFR 63.160 (a)
3.	<u>Certification of Accuracy</u> Any report submitted to the DES and/or EPA shall include the certification of accuracy statement outlined in Section XXI.B. of this Permit and shall be signed by the responsible official.	As specified	Facility Wide	40 CFR 70.6(c)(1)
4.	<u>Annual Compliance Certification</u> Annual compliance certification shall be submitted in accordance with Section XXI of this Permit.	Annually (no later than April 15 th of the following year)	Facility Wide	40 CFR 70.6(c)(1)

Table 9 – Applicable Reporting Requirements

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Cite
5.	<u>Emission Fees</u> Annual reporting and payment of emission-based fees shall be conducted in accordance with Section XXIII of this Permit.	Annually by April 15 th and Oct 15 th of the following year, respectively	Facility Wide	Env-A 704.03 Federally Enforceable
6.	<u>VOC Reporting Requirements</u> For all VOC emitting devices and processes, as well as miscellaneous sources, the owner or operator shall submit to the Director, reports of the data required by Condition VIII.G, Table 8, Item 7 through 9, including total annual quantities of all VOC emissions.	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 901.07 Federally Enforceable
7.	<u>NOx Reporting Requirements</u> For fuel burning devices, including boilers, and engines, as well as miscellaneous sources, the owner or operator shall submit to the Director, reports of the data required by Condition VIII.G, Table 8, Item 10, including total annual quantities of all NOx emissions.	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 901.08 Federally Enforceable
8.	<u>Permit Deviations</u> Prompt reporting of deviations from Permit requirements shall be conducted in accordance with Section XXVIII of this Permit.	Within 24 hours of an occurrence	Facility Wide	Env-A 902.02 & 40 CFR 70.6(a)(3)(iii)(B) Federally Enforceable
9.	<u>Speciated Emissions Report</u> Annual report of the actual emissions speciated by individual RTAP including a breakdown of VOC emissions by compound.	Annually, by April 15 th of the following year.	Facility wide	Env-A 907.01 (b)(4) State Enforceable
10.	<u>Startup, Shutdown, Malfunction Reports (SSMR)</u> If there was a startup, shutdown, malfunction of the control device during the reporting period that is not consistent with the SSMP, a SSMR shall be submitted within 2 days with a followup letter within 7 days after the event. If actions taken were consistent with the SSMP, the report shall be submitted semiannually.	Every 6 months (by July 31 and January 31 for preceding semi-annual period) or 2 days after the malfunction as specified.	EU6	40 CFR 63.3400

IX. Requirements Currently Not Applicable:

The Permittee did not identify any requirements which are not applicable to the facility.

General Title V Operating Permit Conditions**X. Issuance of a Title V Operating Permit**

This Permit is issued in accordance with the provisions of Env-A 609. In accordance with 40 CFR 70.6(a)(2), this Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the date five (5) years after issuance of this Permit.

Permit expiration terminates the Permittee's right to operate the Permittee's emission units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

XI. Title V Operating Permit Renewal Procedures

Pursuant to Env-A 609.07(b), an application for renewal of this Permit shall be considered timely if it is submitted to the Director at least six months prior to the designated expiration date of this Permit.

XII. Application Shield

Pursuant to Env-A 609.08, if an applicant submits a timely and complete application for the issuance or renewal of a Permit, the failure to have a Permit shall not be considered a violation of this part until the Director takes final action on the application.

XIII. Permit Shield

A. Pursuant to Env-A 609.09(a), a permit shield shall provide that:

1. For any applicable requirement or any state requirement found in the New Hampshire Rules Governing the Control of Air Pollution specifically included in this Permit, compliance with the conditions of this Permit shall be deemed compliance with said applicable requirement or said state requirement as of the date of permit issuance; and
2. The Permittee need not comply with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and specifically identified in Section IX of this Title V Operating Permit as not applicable to the stationary source or area source.

B. The permit shield identified in Section XIII.A. of this Permit shall apply only to those conditions incorporated into this Permit in accordance with the provisions of Env-A 609.09(b). It shall not apply to certain conditions as specified in Env-A 609.09(c) that may be incorporated into this Permit following permit issuance by DES.

C. If a Title V Operating Permit and amendments thereto issued by the DES does not expressly include or exclude an applicable requirement or a state requirement found in the New

Hampshire Rules Governing the Control of Air Pollution, that applicable requirement or state requirement shall not be covered by the permit shield and the Permittee shall comply with the provisions of said requirement to the extent that it applies to the Permittee.

- D. If the DES determines that this Title V Operating Permit was issued based upon inaccurate or incomplete information provided by the applicant or Permittee, any permit shield provisions in said Title V Operating Permit shall be void as to the portions of said Title V Operating Permit which are affected, directly or indirectly, by the inaccurate or incomplete information.
- E. Pursuant to Env-A 609.09(f), nothing contained in Section XIII of this Permit shall alter or affect the ability of the DES to reopen this Permit for cause in accordance with Env-A 609.19 or to exercise its summary abatement authority.
- F. Pursuant to Env-A 609.09(g), nothing contained in this section or in any title V operating permit issued by the DES shall alter or affect the following:
 - 1. The ability of the DES to order abatement requiring immediate compliance with applicable requirements upon finding that there is an imminent and substantial endangerment to public health, welfare, or the environment;
 - 2. The state of New Hampshire's ability to bring an enforcement action pursuant to RSA 125-C:15,II;
 - 3. The provisions of section 303 of the CAA regarding emergency orders including the authority of the EPA Administrator under that section;
 - 4. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - 5. The applicable requirements of the acid rain program, consistent with section 408(a) of the CAA;
 - 6. The ability of the DES or the EPA Administrator to obtain information about a stationary source, area source, or device from the owner or operator pursuant to section 114 of the CAA; or
 - 7. The ability of the DES or the EPA Administrator to enter, inspect, and/or monitor a stationary source, area source, or device.

XIV. Reopening for Cause

The Director shall reopen and revise a Title V Operating Permit for cause if any of the circumstances contained in Env-A 609.19(a) exist. In all proceedings to reopen and reissue a Title

V Operating Permit, the Director shall follow the provisions specified in Env-A 609.19(b) through (g).

XV. Administrative Permit Amendments

- A. Pursuant to Env-A 612.01, the Permittee may implement the changes addressed in the request for an administrative permit amendment as defined in Env-A 101 immediately upon submittal of the request.
- B. Pursuant to Env-A 612.01, the Director shall take final action on a request for an administrative permit amendment in accordance with the provisions of Env-A 612.01(b) and (c).

XVI. Operational Flexibility

- A. Pursuant to Env-A 612.02, the Permittee subject to and operating under this Title V Operating Permit may make changes involving trading of emissions, off-permit changes, and section 502(b)(10) changes at the permitted stationary source or area source without filing a Title V Operating Permit application for and obtaining an amended Title V Operating Permit, provided that all of the following conditions are met, as well as conditions specified in Section XVI. B through E of this permit, as applicable. At this point, DES has not included any permit terms authorizing emissions trading in this permit.
 - 1. The change is not a modification under any provision of Title I of the CAA;
 - 2. The change does not cause emissions to exceed the emissions allowable under the Title V operating permit, whether expressed therein as a rate of emissions or in terms of total emissions;
 - 3. The owner or operator has obtained any temporary permit required by Env-A 600;
 - 4. The owner or operator has provided written notification to the director and administrator of the proposed change and such written notification includes:
 - a. The date on which each proposed change will occur;
 - b. A description of each such change;
 - c. Any change in emissions that will result;
 - d. A request that the operational flexibility procedures be used; and
 - e. The signature of the responsible official, consistent with Env-A 605.04(b);
 - 5. The change does not exceed any emissions limitations established under any of the following:
 - a. The New Hampshire Code of Administrative Rules, Env-A 100-3800;
 - b. The CAA; or

- c. This Title V Operating Permit; and
- 6. The Permittee, DES, and EPA have attached each written notice required above to their copy of this Title V Operating Permit.
- B. For changes involving the trading of emissions, the Permittee must also meet the following conditions:
 - 1. The Title V Operating Permit issued to the stationary source or area source already contains terms and conditions including all terms and conditions which determine compliance required under 40 CFR 70.6(a) and (c) and which allow for the trading of emissions increases and decreases at the permitted stationary source or area source solely for the purpose of complying with a federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirements;
 - 2. The owner or operator has included in the application for the Title V Operating Permit proposed replicable procedures and proposed permit terms which ensure that the emissions trades are quantifiable and federally enforceable for changes to the Title V Operating Permit which qualify under a federally- enforceable emissions cap that is established in the Title V Operating Permit independent of the otherwise applicable requirements;
 - 3. The Director has not included in the emissions trading provision any devices for which emissions are not quantifiable or for which there are no replicable procedures to enforce emissions trades; and
 - 4. The written notification required above is made at least 7 days prior to the proposed change and includes a statement as to how any change in emissions will comply with the terms and conditions of the Title V Operating Permit.
- C. For off-permit changes, the Permittee must also meet the following conditions:
 - 1. Each off-permit change meets all applicable requirements and does not violate any existing permit term or condition;
 - 2. The written notification required above is made contemporaneously with each off-permit change, except for changes that qualify as insignificant under the provisions of Env-A 609.04;
 - 3. The change is not subject to any requirements under Title IV of the CAA and the change is not a Title I modification;
 - 4. The Permittee keeps a record describing the changes made at the source which result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this Permit, and the emissions resulting from those changes; and
 - 5. The written notification required above includes a list of the pollutants emitted and any applicable requirement that would apply as a result of the change.
- D. For section 502(b)(10) changes, the Permittee must also meet the following conditions:

1. The written notification required above is made at least 7 days prior to the proposed change; and
 2. The written notification required above includes any permit term or condition that is no longer applicable as a result of the change.
- E. Pursuant to Env-A 612.02(f), the off-permit change and section 502(b)(10) change shall not qualify for the permit shield under Env-A 609.09.

XVII. Minor Permit Amendments

- A. Prior to implementing a minor permit modification, the Permittee shall submit a written request to the Director in accordance with the requirements of Env-A 612.05(b).
- B. The Director shall take final action on the minor permit amendment request in accordance with the provisions of Env-A 612.05(c) through (g).
- C. Pursuant to Env-A 612.05(g), the permit shield specified in Env-A 609.09 shall not apply to minor permit amendments under Section XVII. of this Permit.
- D. Pursuant to Env-A 612.05(a), the Permittee shall be subject to the provisions of RSA 125-C:15 if the change is made prior to the filing with the Director of a request for a minor permit amendment.

XVIII. Significant Permit Amendments

- A. Pursuant to Env-A 612.06, a change at the facility shall qualify as a significant permit amendment if it meets the criteria specified in Env-A 612.06(a)(1) through (5).
- B. Prior to implementing the significant permit amendment, the Permittee shall submit a written request to the Director which includes all the information as referenced in Env-A 612.06(b) and (c) and shall be issued an amended Title V Operating Permit from the DES. The Permittee shall be subject to the provisions of RSA 125-C:15 if a request for a significant permit amendment is not filed with the Director and/or the change is made prior to the issuance of an amended Title V Operating Permit.
- C. The Director shall take final action on the significant permit amendment in accordance with the Procedures specified in Env-A 612.06(d), (e) and (f).

XIX. Title V Operating Permit Suspension, Revocation or Nullification

- A. Pursuant to RSA 125-C:13, the Director may suspend or revoke any final permit issued hereunder if, following a hearing, the Director determines that:

1. The Permittee has committed a violation of any applicable statute or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, order or permit condition in force and applicable to it; or
 2. The emissions from any device to which this Permit applies, alone or in conjunction with other sources of the same pollutants, presents an immediate danger to the public health.
- B. The Director shall nullify any Permit if, following a hearing in accordance with RSA 541-A:30, II, a finding is made that the Permit was issued in whole or in part based upon any information proven to be intentionally false or misleading.

XX. Inspection and Entry

EPA and DES personnel shall be granted access to the facility covered by this Permit, in accordance with RSA 125-C:6,VII for the purposes of: inspecting the proposed or permitted site; investigating a complaint; and assuring compliance with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and/or conditions of any Permit issued pursuant to Chapter Env-A 600.

XXI. Certifications

A. Compliance Certification Report

In accordance with 40 CFR 70.6(c) the Responsible Official shall certify for the previous calendar year that the facility is in compliance with the requirements of this permit. The report shall be submitted annually, no later than April 15th of the following year. The report shall be submitted to the DES and to the U.S. Environmental Protection Agency – Region I. The report shall be submitted in compliance with the submission requirements below.

In accordance with 40 CFR 70.6(c)(5), the report shall describe:

1. The terms and conditions of the Permit that are the basis of the certification;
2. The current compliance status of the source with respect to the terms and conditions of this Permit, and whether compliance was continuous or intermittent during the reporting period;
3. The methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
4. Any additional information required by the DES to determine the compliance status of the source.

B. Certification of Accuracy Statement

All documents submitted to the DES shall contain a certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in accordance with the requirements of 40 CFR 70.5(d) and contain the following language:

"I am authorized to make this submission on behalf of the facility for which the submission is made. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in the enclosed documents are to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

All reports submitted to DES (except those submitted as emission based fees as outlined in Section XXIII of this Permit) shall be submitted to the following address:

New Hampshire Department of Environmental Services
Air Resources Division
29 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095
ATTN: Section Supervisor, Compliance Bureau

All reports submitted to EPA shall be submitted to the following address:

Office of Environmental Stewardship
Director Air Compliance Program
United States Environmental Protection Agency
1 Congress Street
Suite 1100 (SEA)
Boston, MA 02114-2023
ATTN: Air Compliance Clerk

XXII. Enforcement

Any noncompliance with a permit condition constitutes a violation of RSA 125-C:15, and, as to the conditions in this permit which are federally enforceable, a violation of the Clean Air Act, 42 U.S.C. Section 7401 et seq., and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by the DES and/or EPA. Noncompliance may also be grounds for assessment of administrative, civil or criminal penalties in accordance with RSA 125-C:15 and/or the Clean Air Act. This Permit does not relieve the Permittee from the obligation to comply with any other provisions of RSA 125-C, the New Hampshire Rules Governing the Control of Air Pollution, or the Clean Air Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this Permit.

In accordance with 40 CFR 70.6 (a)(6)(ii), a Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

XXIII. Emission-Based Fee Requirements

- A. The Permittee shall pay an emission-based fee annually for this facility as calculated each calendar year pursuant to Env-A 704.03.
- B. The Permittee shall determine the total actual annual emissions from the facility to be included in the emission-based multiplier specified in Env-A 704.03(a) for each calendar year in accordance with the methods specified in Env-A 616.
- C. The Permittee shall calculate the annual emission-based fee for each calendar year in

$$FEE = E * DPT * CPI_m * ISF$$

accordance with the procedures specified in Env-A 704.03 and the following equation:

Where:

FEE = The annual emission-based fee for each calendar year as specified in Env-A 704.
 E = The calculation of total annual emissions as specified in Env-A 704.02 and the provisions specified in Env-A 704.03(a).
 DPT = The dollar per ton fee the DES has specified in Env-A 704.03(b).
 CPI_m = The Consumer Price Index Multiplier as calculated in Env-A 704.03(c).
 ISF = The Inventory Stabilization Factor as specified in Env-A 704.03(d).

- D. The Permittee shall contact the DES each calendar year for the value of the Inventory Stabilization Factor.
- E. The Permittee shall contact the DES each calendar year for the value of the Consumer Price Index Multiplier.
- F. The Permittee shall submit, to the DES, payment of the emission-based fee and a summary of the calculations referenced in Sections XXIII.B. and C of this Permit for each calendar year by October 15th of the following calendar year in accordance with Env-A 704.04. The emission-based fee and summary of the calculations shall be submitted to the following address:

New Hampshire Department of Environmental Services
 Air Resources Division
 P.O. Box 95
 Concord, NH 03302-0095
 ATTN.: Emissions Inventory

- G. The DES shall notify the Permittee of any under payments or over payments of the annual emission-based fee in accordance with Env-A 704.05.

XXIV. Duty To Provide Information

In accordance with 40 CFR 70.6 (a)(6)(v), upon the DES's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with

the Permit. Upon request, the Permittee shall furnish to the DES copies of records that the Permittee is required to retain by this Permit. The Permittee may make a claim of confidentiality as to any information submitted pursuant to this condition in accordance with Env-A 103 at the time such information is submitted to DES. DES shall evaluate such requests in accordance with the provisions of Env-A 103.

XXV. Property Rights

Pursuant to 40 CFR 70.6 (a)(6)(iv), this Permit does not convey any property rights of any sort, or any exclusive privilege.

XXVI. Severability Clause

Pursuant to 40 CFR 70.6 (a)(5), the provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

XXVII. Emergency Conditions

Pursuant to 40 CFR 70.6 (g), the Permittee shall be shielded from enforcement action brought for noncompliance with technology based¹⁶ emission limitations specified in this Permit as a result of an emergency¹⁷. In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- A. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;
- B. The permitted facility was at the time being properly operated;
- C. During the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and
- D. The Permittee submitted notice of the emergency to the DES within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

¹⁶ Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

¹⁷ An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

XXVIII. Permit Deviation

In accordance with 40 CFR 70.6(a)(3)(iii)(B), the Permittee shall report to the DES all instances of deviations from Permit requirements, by telephone, fax, or e-mail (pdeviations@des.state.nh.us) within 24 hours of discovery of such deviation. This report shall include the deviation itself, including those attributable to upset conditions as defined in this Permit, the probable cause of such deviations, and any corrective actions or preventative measures taken.

Within 10 days of discovery of the permit deviation, the Permittee shall submit a written report including the above information as well as the following: preventive measures taken to prevent future occurrences; date and time the permitted device returned to normal operation; specific device, process or air pollution control equipment that contributed to the permit deviation; type and quantity of excess emissions emitted to the atmosphere due to permit deviation; and an explanation of the calculation or estimation used to quantify excess emissions.

Said Permit deviation shall also be submitted in writing to the DES in the semi-annual summary report of monitoring and testing requirements due July 31st and January 31st of each calendar year. Deviations are instances where any Permit condition is violated and has not already been reported as an emergency pursuant to Section XXVII. of this Permit.

Reporting a Permit deviation is not an affirmative defense for action brought for noncompliance.